

| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 203510US77 | | SERIAL NO. 10/023,890 | |
|--|--------------------|--|----------------|----------------------------------|--------------|-------------------------------|--|
| LIST OF REFERENCES CITED BY APPLICANT <div style="text-align: center; border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; margin: 0 auto; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div>PTO</div> <div>RECEIVED</div> <div>FEB 21 2002</div> <div>PTENT & TRADEMARK OFFICE</div> </div> | | | | APPLICANT William M. CANFIELD | | | |
| | | | | FILING DATE December 21, 2001 | | GROUP | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE | |
| RP | AA | 6,118,045 | 09/12/045 | REUSER ET AL | | | |
| | AB | 5,939,279 | 08/17/99 | SMITH | | | |
| | AC | 5,932,211 | 08/03/99 | WILSON ET AL | | | |
| | AD | 5,929,036 | 07/27/99 | McEVER | | | |
| | AE | 5,928,928 | 07/27/99 | AERTS | | | |
| | AF | 5,919,913 | 07/06/99 | NUYENS ET AL | | | |
| | AG | 5,919,690 | 07/06/99 | KNAP ET AL | | | |
| | AH | 5,917,122 | 06/29,99 | BYRNE | | | |
| | AI | 5,916,911 | 06/29/99 | SHAYMAN EET AL | | | |
| | AJ | 5,916,870 | 06/29/99 | LEE ET AL | | | |
| | AK | 5,914,231 | 06/22/99 | HENNINK ET AL | | | |
| | AL | 5,912,146 | 06/15/99 | NISHIMURA ET AL | | | |
| | AM | 5,911,704 | 06/15/99 | HUMES | | | |
| AN | 5,906,817 | 05/25/99 | MOULLIER ET AL | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| | AU | | | | | | |
| | AV | | | | | | |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| RP | AW | Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990. | | | | | |
| RP | AX | SLY, "The Missing Link in Lysosomal Enzyme Targeting", The Journal of Clinical Investigation, Vol. 105, No. 5, Pages 563-564, March 2000 | | | | | |
| RP | AY | Raas-Rothschild et al., "Molecular Basis of Variant Pseudo-Hurler Polydystrophy (Mucopolidosis IIIC)", The Journal of Clinical Investigation, Vol. 105, No. 5, pp. 673-681, March 2000 | | | | | |
| RP | AZ | Bao et al., "Bovine Udp-N-Acetylglucosamine: Lysosomal-Enzyme N-Acetylglucosamine-1- Phosphotransferase", The Journal of Biological Chemistry, Vol. 271, No. 49, pp. 31446-31451, December 6, 1996 | | | | | |
| Examiner <i>Rebecca Pong</i> | | | | Date Considered <i>9-11-03</i> | | | |
| *Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |


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| | | | | FILING DATE DECEMBER 21, 2001 | | GROUP | |
| U.S. PATENT DOCUMENTS | | | | | | | |
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| RP | BA | 5,895,833 | 04/20/99 | BERG | | | |
| | BB | 5,879,937 | 03/09/99 | RONCAROLO | | | |
| | BC | 5,874,297 | 02/23/99 | WU ET AL | | | |
| | BD | 5,871,946 | 02/16/99 | LUCAS ET AL | | | |
| | BE | 5,861,491 | 01/19/99 | NUIJENS ET AL | | | |
| | BF | 5,858,755 | 01/12/99 | LOWE | | | |
| | BG | 5,858,744 | 01/12/00 | BAUM ET AL | | | |
| | BH | 5,858,351 | 01/12/99 | PODSAKOFF ET AL | | | |
| | BI | 5,854,207 | 12/29/98 | LEE ET AL | | | |
| | BJ | 5,851,782 | 12/22/98 | HANNUN ET AL | | | |
| | BK | 5,849,885 | 12/15/98 | NUYENS ET AL | | | |
| | BL | 5,840,578 | 11/24/98 | DESNICK | | | |
| | BM | 5,830,916 | 11/03/98 | HANNUM ET AL | | | |
| RP | BN | 5,830,850 | 11/03/98 | GELB ET AL | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| | BU | | | | | | |
| | BV | | | | | | |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| RP | BW | KORNFELD, "Purification and Multimeric Structure of Bovine N-Acetylglucosamine-1-Phosphodiester α -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 273, No. 36, pp. 23203-23210, September 4, 1998 | | | | | |
| RP | BX | Charlene GOTTLIEB et al, "Isolation of a Clone of Chinese Hamster Ovary Cells Deficient in Plant Lectin-Binding Sites" Proc. Nat. Acad. Sci. USA, Vol. 71, No. 4, pp. 1078-1082, April 1974 | | | | | |
| RP | BY | Angy I. LIN et al, "Core fucosylation of high-mannose-type oligosaccharides in GlcNAc transferase I-deficient (LecI) CHO cells", Glycobiology, Vol. 4, No. 6, pp. 895-902, (1994) | | | | | |
| RP | BZ | Alan D. ELBEIN, "Glycosidase inhibitors: inhibitors of N-linked oligosaccharide processing", The FASEB Journal, Vol. 5, December 1991, pp. 3065-3063 | | | | | |
| Examiner Rebecca Prouty | | | | Date Considered 9-11-03 | | | |

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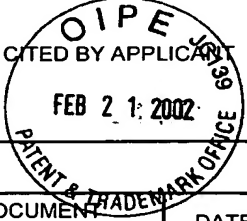
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE | | |
| RP | CA | 5,830,711 | 11/03/98 | BARANY ET AL | | | | |
| | CB | 5,807,943 | 09/15/98 | LEE ET AL | | | | |
| | CC | 5,798,448 | 08/25/98 | CARAS ET AL | | | | |
| | CD | 5,798,239 | 08/25/98 | WILSON ET AL | | | | |
| | CE | 5,792,647 | 08/11/98 | ROSEMAN ET AL | | | | |
| | CF | 5,773,236 | 06/30/98 | DIWU ET AL | | | | |
| | CG | 5,759,775 | 06/02/98 | CARAS ET AL | | | | |
| | CH | 5,750,172 | 05/12/98 | MEADE ET AL | | | | |
| | CI | 5,741,957 | 04/21/98 | DEBOER ET AL | | | | |
| | CJ | 5,736,360 | 04/07/98 | GAULTON ET AL | | | | |
| | CK | 5,728,381 | 03/17/98 | WILSON ET AL | | | | |
| | CL | 5,723,585 | 03/03/98 | BAKER ET AL | | | | |
| | CM | 5,721,367 | 02/24/98 | KAY ET AL | | | | |
| | RP | CN | 5,719,031 | 02/17/98 | HAUGLAND ET AL | | | |
| | FOREIGN PATENT DOCUMENTS | | | | | | | |
| | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | | | | |
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| | CV | | | | | | | |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | | |
| | CW | Alan D. ELBEIN et al, "Kifunensine, a Potent Inhibitor of the Glycoprotein Processing Mannosidase 1", The Journal of Biological Chemistry, Vol. 265, No. 26, September 15, pp. 15599-15605 (1990) <i>Same as AW</i> | | | | | | |
| RP | CX | Urike FUHRMANN et al, "Novel mannosidase inhibitor blocking conversion of high mannose to complex oligosaccharides", (1984) Macmillan Journals Ltd., Vol. 307, No. 23, February 1984 | | | | | | |
| RP | CY | Volker GROSS et al., "Secretion of high-mannose-type α_1 -proteinase inhibitor and α_1 -acid glycoprotein by primary cultures of rat hepatocytes in the presence of the mannosidase 1 inhibitor 1-deoxymannojirimycin", Received February 26/April 5, 1985) - EJB850187 | | | | | | |
| RP | CZ | Joyce BISCHOFF et al., "The use of 1-Deoxymannojirimycin to Evaluate the Role of Various α -Mannosidases in Oligosaccharide Processing in Intact Cells", The Journal of Biological Chemistry (1986), Vol 261, No. 10, Issue of April 5, pp. 4766-4774 | | | | | | |
| Examiner <i>Rebecca Prouty</i> | | | | Date Considered <i>9-11-03</i> | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE | |
| RP | DA | 5,716,614 | 02/10/98 | KATZ ET AL | | | |
| | DB | 5,707,865 | 01/13/98 | KOHN ET AL | | | |
| | DC | 5,704,910 | 06/06/98 | HUMES | | | |
| | DD | 5,696,001 | 12/09/97 | HABENSTEIN | | | |
| | DE | 5,693,622 | 12/02/97 | WOLFF ET AL | | | |
| | DF | 5,691,181 | 11/25/97 | LOWE | | | |
| | DG | 5,686,240 | 11/11/97 | SCHUCHMAN ET AL | | | |
| | DH | 5,679,545 | 10/21/97 | BAKER ET AL | | | |
| | DI | 5,665,366 | 09/09/97 | RAWLINGS ET AL | | | |
| | DJ | 5,663,254 | 09/02/97 | LEE ET AL | | | |
| | DK | 5,663,076 | 09/02/97 | ROSTOKER ET AL | | | |
| | DL | 5,658,567 | 08/19/97 | CALHOUN ET AL | | | |
| | DM | 5,648,335 | 07/15/97 | LEWIS ET AL | | | |
| | DN | 5,648,229 | 07/15/97 | HABENSTEIN | | | |
| | FOREIGN PATENT DOCUMENTS | | | | | | |
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| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
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| Examiner <i>Rebecca Pouty</i> | | | | Date Considered <i>9-11-03</i> | | | |

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| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| RP | EA | 5,639,939 | 06/17/97 | McCUNE, III | | | |
| RP | EB | 5,639,607 | 06/17/97 | DESNICK ET AL | | | |
| RP | EC | 5,633,261 | 05/27/97 | DIME | | | |
| RP | ED | 5,633,228 | 05/27/97 | LEWIS ET AL | | | |
| RP | EE | 5,627,171 | 05/06/97 | PARK ET AL | | | |
| RP | EF | 5,627,073 | 05/06/97 | BAKER ET AL | | | |
| RP | EG | 5,624,806 | 04/29/97 | BAKER ET AL | | | |
| RP | EH | 5,621,106 | 04/15/97 | DIME | | | |
| RP | EI | 5,612,206 | 03/18/97 | VALERIO ET AL | | | |
| RP | EJ | 5,585,247 | 12/17/96 | HABENSTEIN | | | |
| RP | EK | 5,583,160 | 12/10/96 | IGARASHI ET AL | | | |
| RP | EL | 5,578,479 | 11/26/96 | LADERMAN ET AL | | | |
| RP | EM | 5,576,424 | 11/19/96 | MAO ET AL | | | |
| RP | EN | 5,571,893 | 11/05/96 | BAKER ET AL | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| Examiner <i>Rebecca Pond</i> | | | | | Date Considered <i>9-11-03</i> | | |

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| RP | FA | 5,571,675 | 11/05/96 | BAKER ET AL | | | |
| | FB | 5,569,648 | 10/29/96 | LEWIS ET AL | | | |
| | FC | 5,565,362 | 10/15/96 | ROSEN | | | |
| | FD | 5,554,366 | 09/10/96 | RAWLINGS ET AL | | | |
| | FE | 5,545,402 | 08/13/96 | WATKINSON | | | |
| | FF | 5,534,615 | 07/09/96 | BAKER ET AL | | | |
| | FG | 5,512,471 | 04/30/96 | SMITH | | | |
| | FH | 5,501,957 | 03/26/96 | DENNIS ET AL | | | |
| | FI | 5,494,810 | 02/27/96 | BARANY ET AL | | | |
| | FJ | 5,491,075 | 02/13/96 | DESNICK ET AL | | | |
| | FK | 5,475,095 | 12/12/95 | MYEROWITZ | | | |
| | FL | 5,466,809 | 11/14/95 | DIME | | | |
| | FM | 5,449,604 | 09/12/95 | SHELLENBERG ET AL | | | |
| | FN | 5,443,986 | 08/22/95 | HAUGHLAND ET AL | | | |
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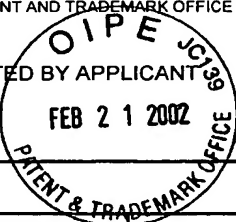
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| RP | GA | 5,439,935 | 08/08/95 | RAWLINGS ET AL | | | |
| | GB | 5,433,946 | 07/18/95 | ALLEN, JR. ET AL | | | |
| | GC | 5,420,112 | 05/30/95 | LEWIS ET AL | | | |
| | GD | 5,405,751 | 04/11/95 | RONCAROLO | | | |
| | GE | 5,382,524 | 01/17/95 | DESNICK ET AL | | | |
| | GF | 5,366,883 | 11/22/94 | ASADA ET AL | | | |
| | GG | 5,362,628 | 11/08/94 | HAUGLAND | | | |
| | GH | 5,344,352 | 09/06/94 | HORNE ET AL | | | |
| | GI | 5,316,906 | 05/31/94 | HAUGLAND ET AL | | | |
| | GJ | 5,310,646 | 05/10/94 | WHITLEY | | | |
| | GK | 5,296,365 | 03/22/94 | OVERBEEKE ET EA | | | |
| | GL | 5,281,394 | 01/25/94 | HOLUB | | | |
| | GM | 5,260,447 | 11/09/93 | NAKAJIMA ET AL | | | |
| | GN | 5,242,805 | 09/07/93 | NALEWAY ET AL | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| Examiner <i>Rebecca Probst</i> | | | | | Date Considered 9-11-03 | | |

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| RP | HA | 5,217,865 | 01/08/93 | MYEROWITZ | | | |
| | HB | 5,208,148 | 05/04/93 | HAUGLAND ET AL | | | |
| | HC | 5,205,917 | 04/27/93 | KLOCK, JR. | | | |
| | HD | 5,179,023 | 01/12/93 | CALHOUN ET AL | | | |
| | HE | 5,166,320 | 11/24/92 | WU ET AL | | | |
| | HF | 5,143,841 | 09/01/92 | HIRABAYSHI ET AL | | | |
| | HG | 5,126,247 | 06/30/92 | PALMER ET AL | | | |
| | HH | 5,089,392 | 02/18/92 | MILLER ET AL | | | |
| | HI | 5,802,778 5,802,778 ^{7/8/98} | 04/24/92 | OVERBEEKE ET AL <i>Thorp et al.</i> | | | |
| | HJ | 5,077,200 | 12/31/91 | HABENSTEIN | | | |
| | HK | 5,075,231 | 12/24/91 | MOREAU ET AL | | | |
| | HL | 5,061,025 | 10/29/91 | MATTE ET AL <i>Debesis</i> | | | |
| | HM | 5,060,428 | 10/29/91 | ARTHUR, JR. ET AL | | | |
| | RP | HN | 5,015,470 | 05/14/91 | GIBSON | | |
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| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| | HW | | | | | | |
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| Examiner <i>Rebecca Prouty</i> | | | | | Date Considered <i>9-11-03</i> | | |

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| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 203510US77 | | SERIAL NO. 10/023,890 | |
|--|--------------------|--|--------------|----------------------------------|--------------|-------------------------------|--|
| <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> OIPF JC139 FEB 21 2002 PATENT & TRADEMARK OFFICE </div> | | | | APPLICANT William M. CANFIELD | | | |
| | | | | FILING DATE December 21, 2001 | | GROUP | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE | |
| RP | IA | 5,001,072 | 03/19/91 | OLSON | | | |
| | IB | 4,997,760 | 03/05/91 | HIRABAYASHI ET AL | | | |
| | IC | 4,987,223 | 01/22/91 | CHOAY ET AL | | | |
| | ID | 4,986,274 | 01/22/91 | STEPHENS | | | |
| | IE | 4,981,801 | 01/01/91 | SUZUKI ET AL | | | |
| | IF | 4,975,441 | 12/04/90 | GIBSON | | | |
| | IG | 4,866,042 | 09/12/89 | NEUWELT | | | |
| | IH | 4,851,390 | 07/25/89 | MORISHIGE | | | |
| | II | 4,798,169 | 01/17/89 | ROSEN ET AL | | | |
| | IJ | 4,749,570 | 06/07/88 | POZNANSKY | | | |
| | IK | 4,659,817 | 04/21/87 | GALLOP ET AL | | | |
| | IL | 4,639,420 | 01/27/87 | SCHAFFNER | | | |
| | IM | 4,615,884 | 10/07/86 | HARSHMAN | | | |
| IN | 4,595,015 | 06/17/86 | JANSEN ET AL | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | | | |
| | IO | | | | | | |
| | IP | | | | | | |
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| Examiner <i>Rebecca Pouty</i> | | | | Date Considered <i>9-11-03</i> | | | |


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| LIST OF REFERENCES CITED BY APPLICANT | | | | APPLICANT William M. CANFIELD | | | |
| | | | | FILING DATE December 21, 2001 | | GROUP | |



| U.S. PATENT DOCUMENTS | | | | | | | |
|---|----|-----------------|----------|--------------------|--------------------------------|-----------|----------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| RF | JA | 4,496,722 | 01/29/85 | GALLOP ET AL | | | |
| | JB | 4,492,761 | 01/08/85 | DURACK | | | |
| | JC | 4,474,770 | 10/02/84 | LORMEAU ET AL | | | |
| | JD | 4,452,794 | 06/05/84 | KORT ET AL | | | |
| | JE | 4,433,946 | 02/28/84 | CHRISTIANSON ET AL | | | |
| | JF | 4,431,737 | 02/14/84 | OLIVIERI ET AL | | | |
| | JG | 4,401,758 | 08/30/83 | LORMEAU ET AL | | | |
| | JH | 4,401,662 | 08/30/83 | LORMEAU ET AL | | | |
| | JI | 4,332,894 | 06/01/82 | WHISTLER | | | |
| | JJ | 4,328,215 | 05/04/82 | BUEDING | | | |
| | JK | 4,195,126 | 12/23/80 | HALL | | | |
| | JL | 4,156,013 | 03/22/79 | BRUINVELS ET AL | | | |
| | JM | 4,140,107 | 02/20/79 | LANCEE ET AL | | | |
| | JN | 3,972,777 | 08/03/76 | YAMADA ET AL | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | | |
| | JO | | | | | | |
| | JP | | | | | | |
| | JQ | | | | | | |
| | JR | | | | | | |
| | JS | | | | | | |
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| | JW | | | | | | |
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| Examiner <i>Rebecca Prouty</i> | | | | | Date Considered <i>9-11-03</i> | | |

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| LIST OF REFERENCES CITED BY APPLICANT <div style="text-align: center;">  </div> | | | | APPLICANT William M. CANFIELD | | | |
| | | | | FILING DATE December 21, 2001 | | GROUP | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE | |
| EP | AA | 3,966,555 | 06/29/76 | ARNAUD ET AL | | | |
| | AB | 3,957,578 | 05/18/76 | NARITA ET AL | | | |
| | AC | RE35,770 | 04/14/98 | LORMEAU ET AL | | | |
| | AD | 5,773,278 | 06/30/98 | SCHUCHMAN ET AL | | | |
| | AE | 5,798,366 | 08/25/98 | PLATT ET AL | | | |
| | AF | 5,635,383 | 06/03/97 | WU ET AL | | | |
| | AG | 5,968,502 | 10/19/99 | TRECO ET AL | | | |
| | AH | 5,055,401 | 10/08/91 | LILJESTROEM ET AL | | | |
| | AI | 5,202,253 | 04/13/93 | ESMON ET AL | | | |
| | AJ | 5,929,304 | 07/27/99 | RADIN ET AL | | | |
| | AK | 5,580,757 | 12/03/96 | DESNICK ET AL | | | |
| | AL | 5,356,804 | 10/18/94 | DESNICK ET AL | | | |
| RP | AM | 5,401,650 | 03/28/95 | DESNICK ET AL | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
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